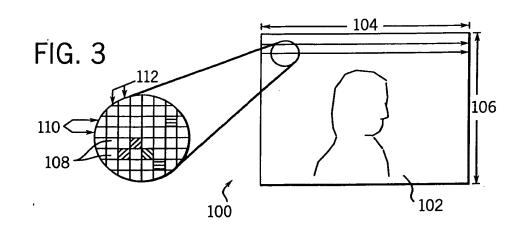
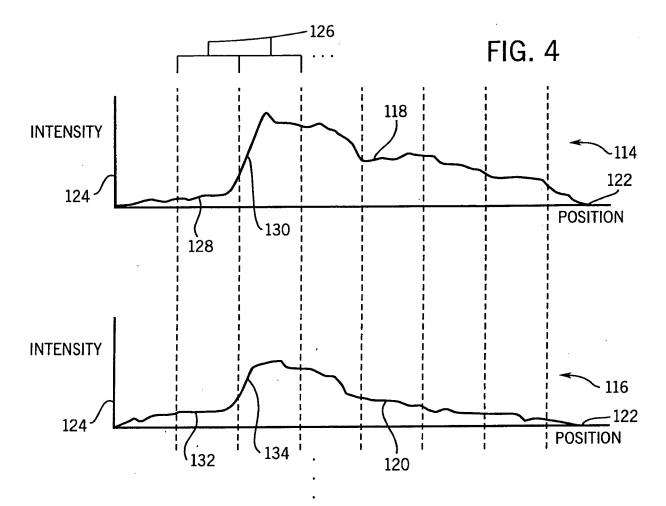
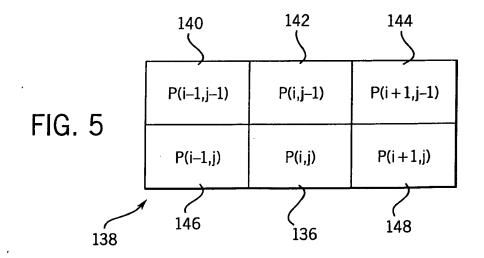


FIG. 1

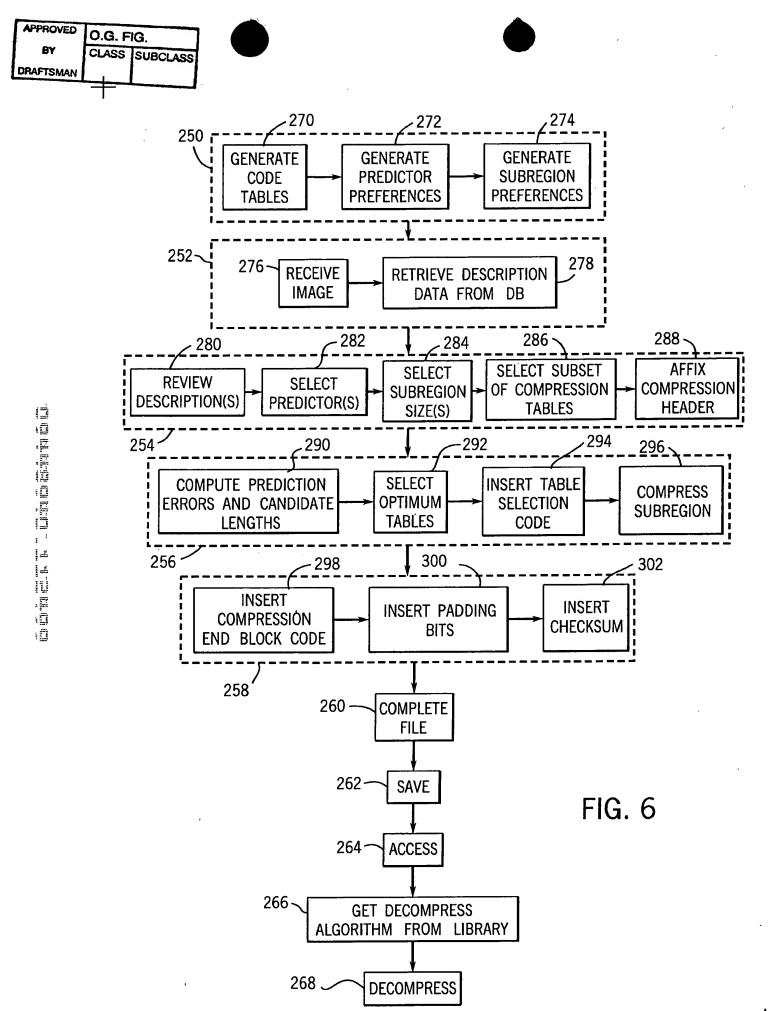
+







+

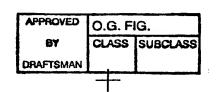


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APPROVED	O.G. FIG.		
BY	CLASS	SUBCLASS	
DRAFTSMAN	,		

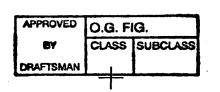
HUFFMAN CODE	SCHEME 0 CODE	LOSSLESS ENCODE  - MAX RATIO =		FIG. ENCODED RANGE	7
PREFIX EX	TENSION	DIFFERENCE d	CODE LENGIA	_MĪĎŢH	
180 0		0	1	0	
100		+1	3	+1	
101 1100	X X	-1 +2 TO +3 -2 TO -3	3 3 5 5 7	+2	
1101 11100	хх	+4 TO +7	3 7	+ 4	170
11101	XX	-4 TO -7	7	• •	
111100	YYY_	+8 TO +15	9 9	+8	
111101	XXX 182	−8 TO −15	9		
1111100	XXXX	+16 TO +31	11	+16	
1111101	XXXX	-16 TO -31	11	. 20	
11111100	XXXXX	+32 TO +63	13	+32	
11111101	XXXXX	-32 TO -61 +64 TO +127	13 7 15	+64	
111111100 111111101	XXXXXX XXXXXX	-64 TO -127	15	T 04	
1111111100	XXXXXXX	+128 TO +25!		+128	
1111111101	XXXXXXX	-128 TO -255			
11111111100	XXXXXXX	+256 TO +511		+256	
11111111101	XXXXXXX	−256 TO −511	19		
111111111110<16 BITS	S)	ACTUAL VALUE	27	<b>\</b>	
( 11111111111	<i></i>	END OF BLOCK	<b>/</b> 11	178	
172	174		176	1/0	

HUFFMAN CODE PREFIX	SCHEME 1 CODE EXTENSION	<ul><li>MAX RATIO =</li><li>DIFFERENCE d</li></ul>	5.33:1  CODE LENGTH	FIG. 8 ENCODED RANGE WIDTH
00	X	0 TO +1	3	1
01 100	X XX	-1 TO -2 +2 TO +5	3 3 5 5 7	+4
101 1100	XX XXX	-3 TO -6 +6 TO +13	5 7 7	+8 ,184
1101 11100	XXX XXXX	-7 TO -14 +14 TO +29	7 9 9	+16
11101 111100	XXXX XXXXX	-15 TO -30 +30 TO +61	9 11 11	+32
111101 1111100	XXXXX	-31 TO -62 +62 TO +125	13	+64
1111101 11111100	XXXXXX	-63 TO -126 +126 TO +253	13 15	+128
11111101 111111100	XXXXXXX	-127 TO -254 +254 TO +509	15 17	+256
111111101 1111111100	XXXXXXXXX	-255 TO -510 +510 TO +1021	17 19	+512
1111111101 1111111110<16	XXXXXXXXX BITS)	-511 TO -1022 ACTUAL VALUE	19 26	
1111111111		END OF BLOCK	10	



	SCHEME 2	– MAX RATIO =	4:1	FIG. 9
HUFFMAN				ENCODED
CODE	CODE	•		RANGE
PREFIX	EXTENSION	DIFFERENCE d	CODE LENGTH	
00	XX	0 TO +3	4	3186
01	XX	−1 TO −4	4	
100	XXX	+4 TO +11	6	+8
101	XXX	−5 TO −12	6	
1100	XXXX	+12 TO +27	8	+16
1101	XXXX	–13 TO –28	8	
11100	XXXXX	+28 TO +59	10	+32
11101	XXXXX	−29 TO −60	10	
111100	XXXXXX	+60 TO +123	12	+64
111101	XXXXXX	−61 TO −124	12	
1111100	XXXXXX	+124 TO +251	14	+128
1111101	XXXXXX	–125 TO –252	14	
11111100	XXXXXXX	+252 TO +507	16	+256
11111101	XXXXXXX	-253 TO −508	16	
111111100	XXXXXXXX	+508 TO +1019	18	+ 512
111111101	XXXXXXXX	−509 TO −1020	18	
	6 BITS)	ACTUAL VALUE	25	
111111111		END OF BLOCK	9	

00115145 0	MAY DATIO 2.01	•	IG. 10
CODE KTENSION			ENCODED RANGE WIDTH
XXX	0 TO +7	5	7188
XXXX	+8 TO +23	5 7	+16
XXXX XXXXX	−9 TO −24 +24 TO +55	7 9	+32
XXXXX XXXXXX	–25 TO –56 +56 TO +119	11	+64
XXXXXX XXXXXXX	-57 TO -120 +120 TO +247	11 13	+128
XXXXXXX	-121 TO -248 +248 TO +503	13 15	+256
XXXXXXXX	+504 TO +1015	17	+512
XXXXXXXXX	ACTUAL VALUE	24	
	CODE XTENSION  XXX  XXX  XXXX  XXXX  XXXXX  XXXXX  XXXX	CODE  XXXX	CODE



## FIG. 11

	2.67:1  CODE LENGTH	ENCODED RANGE WIDTH	
0 TO +15	6	15 <sub>1</sub>	90
−1 TO − <b>1</b> 6			
+16 TO +47		+32	
–17 TO –48	8		
+48 TO +111	10	+64	
−49 TO − <b>1</b> 12	10		
( +112 TO +239	12	+128	
( –113 TO –240	12		
	. 14	+256	
	14		
		+512	
	23		
END OF BLOCK	7		•
	0 TO +15 -1 TO -16 +16 TO +47 -17 TO -48 +48 TO +111 -49 TO -112 X +112 TO +239 X -113 TO -240 XX +240 TO +495 XX -241 TO -496 XXX +496 TO +1007 XXX -497 TO -1008 ACTUAL VALUE	O TO +15  -1 TO -16  -1 TO -48  -17 TO -48  +48 TO +111  -49 TO -112  X +112 TO +239  X -113 TO -240  XX +240 TO +495  XX -241 TO -496  XXX +496 TO +1007  XXX -497 TO -1008  ACTUAL VALUE  23	ENCODED RANGE  N DIFFERENCE d CODE LENGTH WIDTH  0 TO +15 6 15 -1 TO -16 6 +16 TO +47 8 +32 -17 TO -48 8 +48 TO +111 10 +64 -49 TO -112 10  X +112 TO +239 12 +128 X -113 TO -240 12 XX +240 TO +495 14 +256 XX -241 TO -496 14 XXX +496 TO +1007 16 +512 XXX -497 TO -1008 16 ACTUAL VALUE 23

	SCHEME 5 -	MAX RATIO = 2.	20.1	FIG.	12
HUFFMAN CODE PREFIX	CODE EXTENSION	DIFFERENCE d	CODE LENGTH	ENCODED RANGE WIDTH	
00	XXXXX	0 TO +31	7	31	192ر ۔
01	XXXXX	−1 TO −32	7		<b></b>
100	XXXXXX	+32 TO +95	9	+64	
101	XXXXXX	-33 TO -96	9		
1100	XXXXXXX	+96 TO +223	11	+128	
1101	XXXXXXX	−97 TO −224	11		
11100	XXXXXXX	+224 TO +479	13	+256	
11101	XXXXXXX	–225 TO –480	13		
111100	XXXXXXX	+480 TO +991	15	+512	
111101	XXXXXXX	–481 TO –992	15		
1111110 <16 B	ITS)	ACTUAL VALUE	22		
111111		END OF BLOCK	6		

